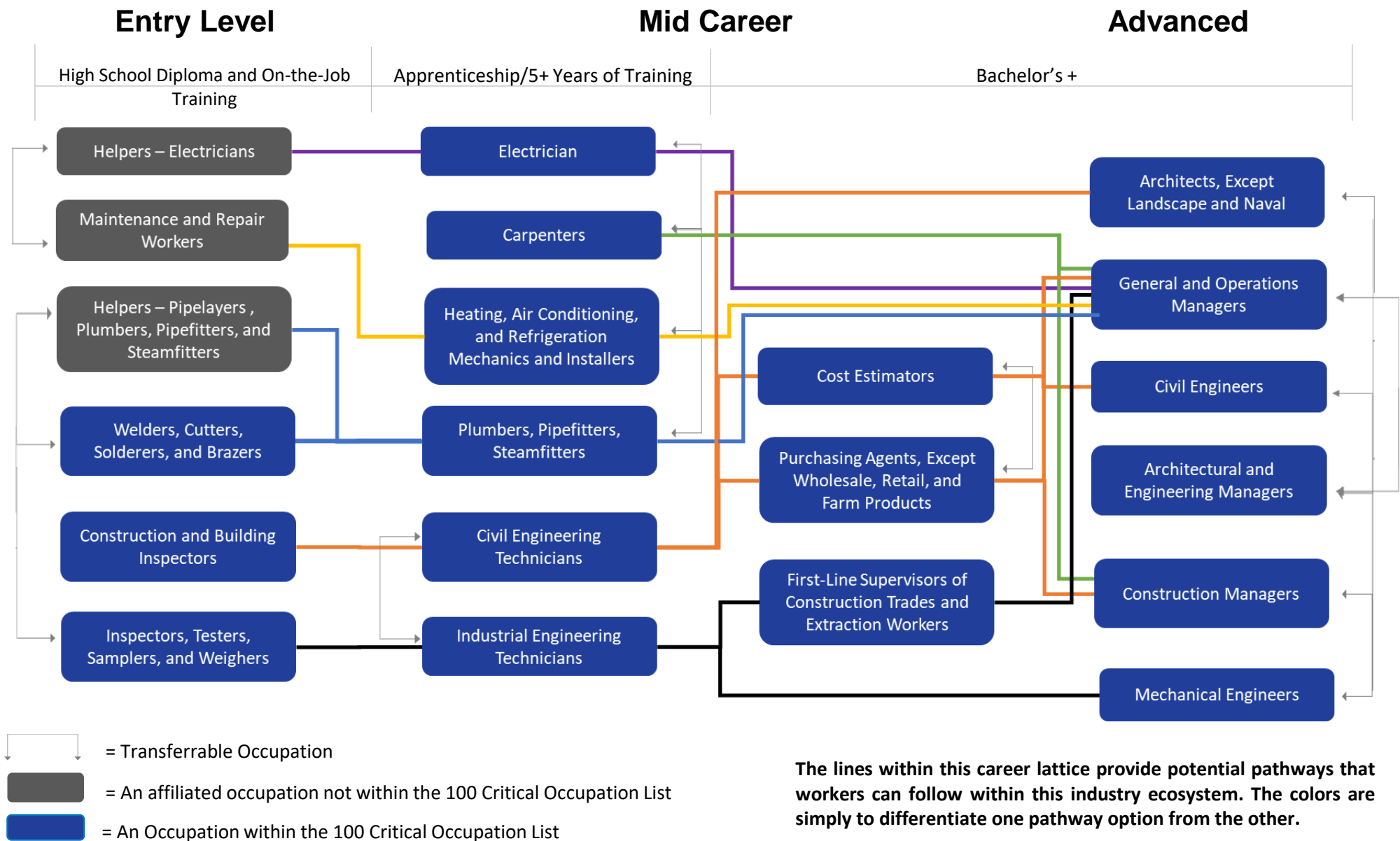


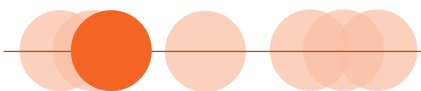
Construction Ecosystem Career Lattice



Welders, Cutters, Solderers, and Brazers Occupational Profile

MEDIAN SALARY & WAGES

\$19.07/hour



COMMON JOB TITLES

CNC Welder (Production)

Structural Fitter

Fabricator

Welding Supervisor

REQUESTED EDUCATION

High
School or
Less

Post-
Secondary
Certificate

TOP SKILLS REQUESTED

Operation and Control

Critical Thinking

Reading Comprehension

Monitoring

Quality Control Analysis

Active Listening

Speaking

Operation Monitoring

Judgment and Decision Making

Monitoring

TOTAL JOBS FOR 2028

9,583



COMMON KNOWLEDGE COMPETENCIES

Production and Processing

Mechanical

Design

Administration and Management

TOP CERTIFICATIONS REQUESTED

Certified Welder

General Certificate Of Secondary
Education

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



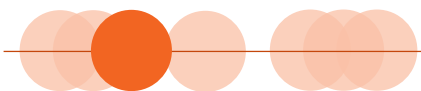
OKLAHOMA
WORKS

 Indicates an especially close similarity

Construction and Building Inspectors Occupational Profile

MEDIAN SALARY & WAGES

\$21.81/hour



COMMON JOB TITLES

Construction Inspector

Property Adjuster

Building Inspector

Property Underwriter

REQUESTED EDUCATION

High
School
or Less

Post-
Secondary
Certificate

Bachelor's+

TOP SKILLS REQUESTED

Reading Comprehension

Critical Thinking

Active Listening

Speaking

Complex Problem Solving

Writing

Quality Control Analysis

Judgment and Decision Making

Active Learning

Monitoring

TOTAL JOBS FOR 2028

1,904



COMMON KNOWLEDGE COMPETENCIES

Building and Construction

English Language

Customer and Personal Service

Engineering and Technology

TOP CERTIFICATIONS REQUESTED

Certified Welding Inspector

Commercial Driver's License (CDL)

Construction Documents Technologist

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



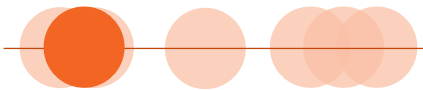
OKLAHOMA
WORKS

 Indicates an especially close similarity

Inspectors, Testers, Sorters, Samplers, and Weighers Occupational Profile

MEDIAN SALARY & WAGES

\$18.07/hour



COMMON JOB TITLES

Software Tester
Product Analyst
Quality Inspector
Quality Control Inspector

REQUESTED EDUCATION

High
School or
Less

Post-
Secondary
Certificate

Bachelor's+

TOP SKILLS REQUESTED

Quality Control Analysis
Active Listening
Reading Comprehension
Speaking
Critical Thinking
Monitoring
Coordination
Operation Monitoring
Judgment and Decision Making
Writing

TOTAL JOBS FOR 2028

5,261



COMMON KNOWLEDGE COMPETENCIES

Production and Processing
Mathematics
English Language
Computers and Electronics

TOP CERTIFICATIONS REQUESTED

Certified Welding Inspector
ASNT Non-Destructive Tester
Commercial Driver's License (CDL)
Certified Quality Technician

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education

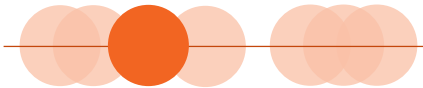


Creative
Industries

Electricians Occupational Profile

MEDIAN SALARY & WAGES

\$23.47/hour



COMMON JOB TITLES

Journeyman Electrician
Electrician
Electrician Apprentice
Maintenance Electrician

REQUESTED EDUCATION

High
School or
Less

Post-
Secondary
Certificate

TOP SKILLS REQUESTED

Troubleshooting
Repairing
Active Listening
Critical Thinking
Judgment and Decision Making
Installation
Speaking
Active Learning
Monitoring
Instructing

TOTAL JOBS FOR 2028

7,631



COMMON KNOWLEDGE COMPETENCIES

Building and Construction
Mechanical
Mathematics
English Language

TOP CERTIFICATIONS REQUESTED

Commercial Driver's License (CDL)
Certified First Responder
Certified Broadcast Radio Engineer

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education

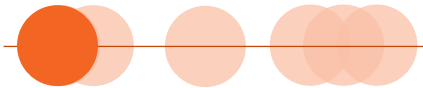


Creative
Industries

Carpenters Occupational Profile

MEDIAN SALARY & WAGES

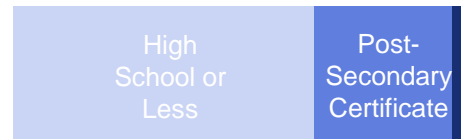
\$17.42/hour



COMMON JOB TITLES

Carpenter
Sales Supervisor
Construction Laborer

REQUESTED EDUCATION



TOP SKILLS REQUESTED

Active Listening
Speaking
Reading Comprehension
Monitoring
Critical Thinking
Monitoring
Coordination
Judgment and Decision Making
Active Learning
Complex Problem Solving

TOTAL JOBS FOR 2028

5,533



COMMON KNOWLEDGE COMPETENCIES

Building and Construction
Mathematics
English Language
Design

TOP CERTIFICATIONS REQUESTED

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education

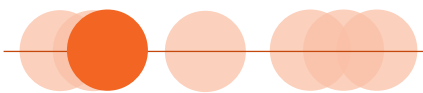


Creative
Industries

Heating, Air Conditioning, and Refrigeration Mechanics and Installers Occupational Profile

MEDIAN SALARY & WAGES

\$21.11/hour



COMMON JOB TITLES

HVAC Refrigeration Technician

HVAC Service Technician

Refrigeration Repair Technician

Heating, Ventilation, and Air Conditioning (HVAC) Mechanic

REQUESTED EDUCATION

High School or Less

Post-Secondary Certificate

Bachelor's+

TOP SKILLS REQUESTED

Operation Monitoring

Repairing

Equipment Maintenance

Troubleshooting

Installation

Equipment Selection

Quality Control Analysis

Operation Monitoring

Operation and Control

Reading Comprehension

TOTAL JOBS FOR 2028

3,964



COMMON KNOWLEDGE COMPETENCIES

Mechanical

Customer and Personal Service

Building and Construction

English Language

TOP CERTIFICATIONS REQUESTED

Commercial Driver's License (CDL)

Professional Engineer

SIMILAR INDUSTRIES



Aerospace & Defense



Agriculture & Biosciences



Energy



Information & Financial Systems



Transportation & Distribution



Construction



Health Care



Education



Creative Industries



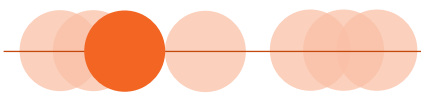
OKLAHOMA
WORKS

Indicates an especially close similarity

Plumbers, Pipefitters, and Steamfitters Occupational Profile

MEDIAN SALARY & WAGES

\$22.23/hour



COMMON JOB TITLES

Plumber
Pipe Fitter
Maintenance Mechanic
Maintenance Mechanic

REQUESTED EDUCATION

High
School or
Less

Post-
Secondary
Certificate

TOP SKILLS REQUESTED

Critical Thinking
Judgment and Decision Making
Active Listening
Reading Comprehension
Active Listening
Critical Thinking
Speaking
Time Management
Operation Monitoring
Complex Problem Solving

TOTAL JOBS FOR 2028

7,299



COMMON KNOWLEDGE COMPETENCIES

Building and Construction
Mechanical
Design
Mathematics

TOP CERTIFICATIONS REQUESTED

Commercial Driver's License (CDL)
Certified Safety Professional

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



OKLAHOMA
WORKS

 Indicates an especially close similarity

Civil Engineering Technicians Occupational Profile

MEDIAN SALARY & WAGES

\$25.08/hour



COMMON JOB TITLES

Engineering Technician

CAD Technician

Civil Engineer

Construction Technician

REQUESTED EDUCATION

High
School or
Less

Post-
Secondary
Certificate

Bachelor's+

TOP SKILLS REQUESTED

Reading Comprehension

Critical Thinking

Active Listening

Mathematics

Speaking

Writing

Monitoring

Complex Problem Solving

Judgment and Decision Making

Coordination

TOTAL JOBS FOR 2028

762



COMMON KNOWLEDGE COMPETENCIES

Engineering and Technology

Building and Construction

Mathematics

Design

TOP CERTIFICATIONS REQUESTED

Professional Engineer

Licensed Professional Engineer

ASNT Non-Destructive Tester

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



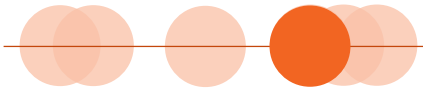
OKLAHOMA
WORKS

 Indicates an especially close similarity

Industrial Engineering Technicians Occupational Profile

MEDIAN SALARY & WAGES

\$29.04/hour



COMMON JOB TITLES

Quality Assurance Engineer
Quality Technician
Engineering Technician
Process Technician

REQUESTED EDUCATION

High
School or
Less

Post-
Secondary
Certificate

Bachelor's+

TOP SKILLS REQUESTED

Reading Comprehension
Active Listening
Monitoring
Critical Thinking
Complex Problem Solving
Speaking
Systems Analysis
Systems Evaluation
Time Management
Writing

TOTAL JOBS FOR 2028

724



COMMON KNOWLEDGE COMPETENCIES

Engineering and Technology
Production and Processing
Mathematics
Mechanical

TOP CERTIFICATIONS REQUESTED

ASNT Non-Destructive Tester
Certified Welding Inspector
Transportation Worker Identification
Credential (TWIC) Card

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



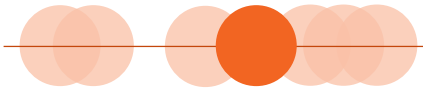
OKLAHOMA
WORKS

 Indicates an especially close similarity

Cost Estimators Occupational Profile

MEDIAN SALARY & WAGES

\$27.84/hour



COMMON JOB TITLES

Business/Financial Estimator

Construction Estimator

Project Manager

Electrical Estimator

REQUESTED EDUCATION



TOP SKILLS REQUESTED

Mathematics

Reading Comprehension Listening

Critical Thinking

Critical Active Listening

Speaking

Judgment and Decision Making

Writing

Active Learning

Complex Problem Solving

Systems Analysis

TOTAL JOBS FOR 2028

2,060



COMMON KNOWLEDGE COMPETENCIES

Mathematics

Engineering and Technology

English Language

Building and Construction

TOP CERTIFICATIONS REQUESTED

Professional Engineer

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries

Purchasing Agents, Except Wholesale, Retail, and Farm Products Occupational Profile

MEDIAN SALARY & WAGES

\$27.07/hour



COMMON JOB TITLES

Purchasing Analyst

Senior Buyer

Purchasing Agent

Procurement Analyst

REQUESTED EDUCATION



TOP SKILLS REQUESTED

Reading Comprehension

Active Listening

Speaking

Critical Thinking

Writing

Active Learning

Judgment and Decision Making

Management of Financial Resources

Monitoring

Persuasion

TOTAL JOBS FOR 2028

3,849



COMMON KNOWLEDGE COMPETENCIES

English Language

Administration and Management

Economics and Accounting

Law and Government

TOP CERTIFICATIONS REQUESTED

Commercial Driver's License (CDL)

Production/Inventory Management

Certified Purchasing Manager

Transportation Worker Identification Credential (TWIC) Card

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



OKLAHOMA
WORKS

 Indicates an especially close similarity

First-Line Supervisors of Construction Trades and Extraction Workers Occupational Profile

MEDIAN SALARY & WAGES

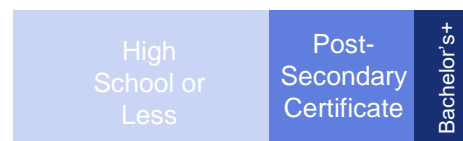
\$28.94/hour



COMMON JOB TITLES

Construction Superintendent
Construction Supervisor
Foreman (Construction and Extraction)
Construction Administrator

REQUESTED EDUCATION



TOP SKILLS REQUESTED

Active Listening
Speaking
Coordination
Monitoring
Time Management
Management of Personnel Resources
Critical Thinking
Reading Comprehension
Instructing
Management of Personnel Resources

TOTAL JOBS FOR 2028

10,572



COMMON KNOWLEDGE COMPETENCIES

Administration and Management
Clerical
Economics and Accounting
Sales and Marketing

TOP CERTIFICATIONS REQUESTED

Commercial Driver's License (CDL)
Certified Master Trainer
Associate Safety Professional
Registered Communications Distribution Designer

SIMILAR INDUSTRIES



Aerospace & Defense



Agriculture & Biosciences



Energy



Information & Financial Systems



Transportation & Distribution



Construction



Health Care



Education



Creative Industries



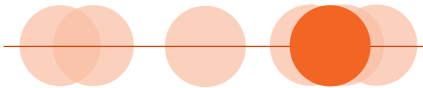
OKLAHOMA
WORKS

Indicates an especially close similarity

General and Operations Managers Occupational Profile

MEDIAN SALARY & WAGES

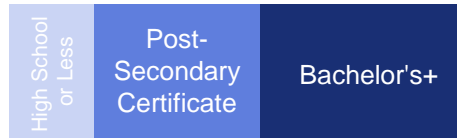
\$37.47/hour



COMMON JOB TITLES

General Manager
Operations Manager
Store Manager (Management)
Sales Manager (Sales and Related)

REQUESTED EDUCATION



TOP SKILLS REQUESTED

Active Listening
Speaking
Monitoring
Social Perceptiveness
Coordination
Reading Comprehension
Critical Thinking
Time Management
Negotiation
Active Learning

TOTAL JOBS FOR 2028

29,825



COMMON KNOWLEDGE COMPETENCIES

Administration and Management
Customer and Personal Service
Personnel and Human Resources
English Language

TOP CERTIFICATIONS REQUESTED

Master Of Business Administration
Series 63
Series 6
Certified Retirement Administrator

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education

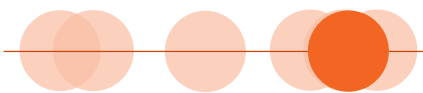


Creative
Industries

Civil Engineers Occupational Profile

MEDIAN SALARY & WAGES

\$38.15/hour



COMMON JOB TITLES

Civil Engineer
Project Engineer
Structural Engineer
Geotechnical Engineer

REQUESTED EDUCATION

Post-
Secondary

Bachelor's+

TOP SKILLS REQUESTED

Reading Comprehension
Critical Thinking
Active Listening
Speaking
Complex Problem Solving
Mathematics
Operations Analysis
Systems Analysis
Time Management
Science

TOTAL JOBS FOR 2028

2,512



COMMON KNOWLEDGE COMPETENCIES

Engineering and Technology
Building and Construction
Mathematics
Design

TOP CERTIFICATIONS REQUESTED

Professional Engineer
Licensed Professional Engineer
Registered Communications
Distribution Designer

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



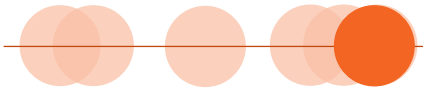
OKLAHOMA
WORKS

 Indicates an especially close similarity

Architectural and Engineering Managers Occupational Profile

MEDIAN SALARY & WAGES

\$56.68/hour



COMMON JOB TITLES

Engineering Manager
Project Manager (Management)
Director of Engineering
Program Manager

REQUESTED EDUCATION

Post-
Secondary

Bachelor's+

TOP SKILLS REQUESTED

Reading Comprehension
Critical Thinking
Active Listening
Speaking
Complex Problem Solving
Coordination
Judgment and Decision Making
Writing
Time Management
Mathematics

TOTAL JOBS FOR 2028

2,114



COMMON KNOWLEDGE COMPETENCIES

Engineering and Technology
Administration and Management
Mathematics
Design

TOP CERTIFICATIONS REQUESTED

Professional Engineer
Licensed Professional Engineer
Master Of Business Administration
Project Management Professional Certification

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education

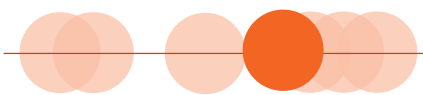


Creative
Industries

Construction Managers Occupational Profile

MEDIAN SALARY & WAGES

\$35.55/hour



COMMON JOB TITLES

Project Manager (Management)
Construction Superintendent
Construction Manager
Assistant Construction Project Manager

REQUESTED EDUCATION

Post-Secondary

Bachelor's+

TOP SKILLS REQUESTED

Reading Comprehension
Critical Thinking
Active Listening
Speaking
Coordination
Complex Problem Solving
Management of Personnel Resources
Active Learning
Time Management
Monitoring

TOTAL JOBS FOR 2028

3,222



COMMON KNOWLEDGE COMPETENCIES

English Language
Building and Construction
Administration and Management
Engineering and Technology

TOP CERTIFICATIONS REQUESTED

Professional Engineer
Certified Construction Manager
PMI Certified
Project Management Professional Certification

SIMILAR INDUSTRIES



Aerospace & Defense



Agriculture & Biosciences



Energy



Information & Financial Systems



Transportation & Distribution



Construction



Health Care



Education



Creative Industries



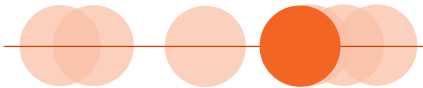
OKLAHOMA
WORKS

 Indicates an especially close similarity

Mechanical Engineers Occupational Profile

MEDIAN SALARY & WAGES

\$37.39/hour



COMMON JOB TITLES

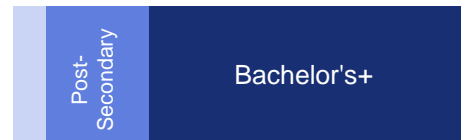
Mechanical Engineer

Design Engineer

Service Engineer

Project Engineer

REQUESTED EDUCATION



TOP SKILLS REQUESTED

Reading Comprehension

Active Listening

Mathematics

Science

Critical Thinking

Complex Problem Solving

Operations Analysis

Judgment and Decision Making

Systems Evaluation

Active Learning

TOTAL JOBS FOR 2028

2,704



COMMON KNOWLEDGE COMPETENCIES

Engineering and Technology

Design

Mathematics

Mechanical

TOP CERTIFICATIONS REQUESTED

Professional Engineer

Licensed Professional Engineer

Certified Sales Executive

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



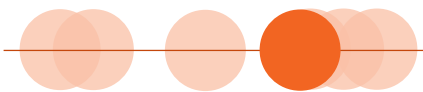
OKLAHOMA
WORKS

 Indicates an especially close similarity

Architects, Except Landscape and Naval Occupational Profile

MEDIAN SALARY & WAGES

\$36.77/hour

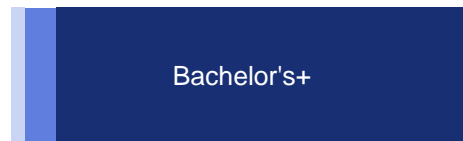


COMMON JOB TITLES

Architect
Architectural Project Manager
Design Architect
Senior Planner

REQUESTED EDUCATION

Bachelor's+



TOP SKILLS REQUESTED

Speaking
Critical Thinking
Reading Comprehension
Active Listening
Complex Problem Solving
Operations Analysis
Judgment and Decision Making
Monitoring
Coordination
Writing

TOTAL JOBS FOR 2028

902



COMMON KNOWLEDGE COMPETENCIES

Design
Building and Construction
Customer and Personal Service
English Language

TOP CERTIFICATIONS REQUESTED

NCARB Certification

SIMILAR INDUSTRIES



Aerospace
& Defense



Agriculture &
Biosciences



Energy



Information &
Financial
Systems



Transportation
& Distribution



Construction



Health Care



Education



Creative
Industries



OKLAHOMA
WORKS

Indicates an especially close similarity

Oklahoma's Ecosystems

WHAT IS AN ECONOMIC ECOSYSTEM?

Oklahoma has identified nine driver and complementary economic systems representing the most prominent industries in terms of wealth generation and growth potential. Driver ecosystems drive wealth generation in Oklahoma, while the complementary ecosystems help to expand wealth in the economy and provide the infrastructure and services to support the driver systems in the state.

- Driver ecosystems: Aerospace and Defense, Agriculture and Biosciences, Energy, Information and Financial Systems, and Transportation and Distribution.
- Complementary Ecosystems: Construction, Health care, Education, and Creative industries.

WHAT ARE THE 100 CRITICAL OCCUPATIONS?

These occupations represent the most pressing needs in each of Oklahoma's Driver and Complementary Economic Systems necessary for the state's continued growth and economic prosperity. A workforce pipeline for each of the top 100 critical occupations is required for Oklahoma's businesses to grow and for Oklahoma citizens to earn a prosperous living. Factors included in the selection process demonstrate the values of job growth, wealth generation, and education, as outlined below:

- Job growth: all occupations have positive forecasted employment growth over the next ten years
- Wealth Generation: all occupations offer median wages greater than or equal to \$12.00 per hour
- Education: occupations requiring "no formal education" are eliminated, except those that offer greater than or equal to \$20.00 per hour.

WHAT ARE TRANSFERABLE OCCUPATIONS?

There are occupations that can provide valuable on-the-job training for individuals interested in the 100 Critical Occupations. These are generally entry-level or mid-career level occupations that can help individuals develop the knowledge, skills, and abilities needed to move forward on their career paths.

WHAT ARE CAREER PATHWAYS?

Career pathways are designed to help people who are looking to make the next step in their careers both envision and plan for their long-term employment goals. The recommended pathways in this report are based on forecasted employment prospects as well as knowledge, skills and ability profile data by specific occupation. These data were gathered from numerous employer-demand driven data sources. Based on these data, Oklahoma Works determined similarities and difference between each occupation's required skill sets and developed possible career pathways options.

Glossary

ABILITIES – the proficiency, skills, or talent within a particular area.

CAREER PATHWAY – a career pathway means a combination of relevant, rigorous and high-quality education, training, and supportive services that aligns both vertically and horizontally across Secondary Education, Adult Basic Education, Workforce Training and Development, Career and Technical Education, and Postsecondary Education systems, pathways, and programs.

CERTIFICATION – third party accrediting or authorizing agency or person who assess, verifies, and provides an official documentation that attests a level of achievement.

COMPETENCIES – an individual’s ability to do a job properly through a set of behaviors.

INDUSTRY-ALIGNED CREDENTIAL – credentials whose standards are aligned to industry-recognized standards.

INDUSTRY-ENDORSED CREDENTIAL – credentials whose standards are aligned to and endorsed by industry.

INDUSTRY-RECOGNIZED CREDENTIAL – an industry-recognized credential is one that either is developed and offered by, or endorsed by a nationally-recognized industry association or organization representing a sizeable portion of the industry sector, or a credential that is sought or accepted by companies within the industry sector for purposes of hiring or recruitment which may include credentials from vendors of certain products.¹

KNOWLEDGE – the skills and information acquired through education or experience.

MEDIAN HOURLY EARNINGS – hourly earnings for the occupation reported at the 50th percentile.

REQUESTED EDUCATION – the highest level of education for workers within the given occupational category. Please note these are not the level of education of new incoming workers but of workers currently employed within these positions.

SKILLS – the ability or expertise to do something well.

TOTAL JOBS – estimated number of jobs in the given year, taken as average over a period of 12-months. This value includes both full- and part-time jobs.



**OKLAHOMA
WORKS**

¹ For this analysis, TPMA utilized certifications data from a third-party data aggregator, Economic Modeling Specialists, Inc., which daily accesses over 300 million unique job postings records. Though these certifications have not been vetted by Oklahoma Works, they are observed as commonly requested by industry employers.